

UTAH COUNTY JOB DESCRIPTION

CLASS TITLE: SURVEY TECHNICIAN I
SURVEY TECHNICIAN II

CLASS CODE: SURVEY TECHNICIAN I - 3048
SURVEY TECHNICIAN II- 3049

EFFECTIVE DATE: 03/21/2006 (Revised 09/21/2004 version)
MARKET POINT: Based on applicable market study

DEPARTMENT: Public Works

JOB SUMMARY

Surveys County real property and maintains and perpetuates public lands survey monumentation. Analyzes the accuracy of public lands monumentation field data and uses computer-aided drafting (CAD) software to update survey monument tie sheets.

CLASS CHARACTERISTICS

Survey Technician I: This is the primary classification level performing surveying activities.

Survey Technician II: This is the advanced classification level performing surveying activities.

SURVEY TECHNICIAN I - ESSENTIAL FUNCTIONS

- Maintains survey monument tie sheets including the horizontal and vertical data shown thereon.

- Performs surveying calculations including traverses and level loops for projects involving the maintenance of the public lands monumentation network.

- Uses coordinate geometry and other methods to perform analysis of survey data related to the public lands monumentation network to ensure its completeness and accuracy.

- Acts as chain-man or rod-man.

- Assists in performing land surveys for maintenance, location, and relocation of section corners through use of GPS equipment and/or conventional surveying equipment.

- Assists with differential level work.

- Assists in performing construction surveys for County roads, bridges, debris basins, buildings, and other properties.

- Assists in performing surveys that define the boundaries of County real property and that establish rights-of-way on County roads.

- Assists in performing surveys to resolve title discrepancies.

- Performs basic field calculations when requested including closing and adjusting level loops and calculating coordinate data for use in GPS navigation.

- Uses a variety of instruments including levels, total stations, and GPS equipment.

SURVEY TECHNICIAN II - ESSENTIAL FUNCTIONS

In addition to the functions described above:

- Performs advanced field calculations when requested, including closing and adjusting traverses and calculating complex GPS positioning information.

- Acts as Party Chief in the absence of the Party Chief.

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SURVEY TECHNICIAN I - KNOWLEDGE, SKILLS, AND ABILITIES

Ability to maintain cooperative relationships with those contacted in the course of work activities; Skill in reading, writing, and basic math; Skill in using coordinate geometry; Ability to use AutoCAD and other computer programs to create and maintain survey tie sheets with an extremely high degree of accuracy; Knowledge of survey field techniques and survey language; Ability to use sophisticated GPS equipment, total stations, and other electronic surveying equipment; Ability to plumb range rods and level rods; Ability to use conventional surveying equipment such as rods, chains, tripods, levels, and tribrachs; and Skill in taking legible notes.

SURVEY TECHNICIAN II - KNOWLEDGE, SKILLS, AND ABILITIES

In addition to the knowledge, skills, and abilities listed above:

Ability to apply trigonometry to surveying; Advanced skill in the use of various survey instruments including, but not limited to, levels, Theodolite, total station, and Global Positioning System (GPS); and Ability to perform advanced field calculations to check traverse closures, calculate coordinates and GPS positioning information, and adjust traverses.

PHYSICAL DEMANDS

Work for sustained periods of time maintaining concentrated attention to detail in highly analytical situations requiring an extremely high degree of accuracy; Use tools or equipment requiring a high degree of dexterity; Need to distinguish between shades of color; and Communicate via radios. While working in the office: Typically sit at a desk or table; Occasionally lift, carry, push, pull or otherwise move objects weighing up to 30 lbs. While working in the field: Regularly walk, stand, or stoop; Occasionally lift, carry, push, pull or otherwise move objects weighing up to 60 pounds; Frequently lift, carry, push, pull or otherwise move objects weighing up to 40 pounds; Use tools or equipment requiring a high degree of dexterity; Carry equipment up and down steep mountainous terrain; Walk, stand, crouch, or run on narrow, slippery, or erratically moving surfaces; and Regularly drives a motor vehicle.

Accommodation may be made for some of these physical demands for otherwise qualified individuals who require and request such accommodation.

WORKING CONDITIONS

Work is regularly performed for sustained periods outdoors and occasionally in hot, cold, or inclement weather; and Work exposes incumbent to possible bodily injury while performing field work. Work is regularly performed in an office setting in an environmentally controlled room.

EDUCATION AND EXPERIENCE

Survey Technician I: Equivalent to an Associates Degree in Surveying.

Survey Technician II- Equivalent to an Associates Degree in Surveying and two (2) years of related survey work experience. Related completed degrees beyond an Associates Degree may be considered in meeting up to one (1) year of the required work experience.

Selected applicants may be subject to a background check.

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LICENSING AND CERTIFICATION

Incumbent must possess a valid State of Utah driver's license.

This description lists the major duties and requirements of the job and is not all-inclusive. Incumbent(s) may be expected to perform job-related duties other than those contained in this document and may be required to have specific job-related knowledge and skills.